



# A strategy for defining research priorities: survey results for Cassava/Sweetpotato

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# Overview

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- A strategic assessment of research priorities for RTB
- Framework: Six stage process
- Scoring: Expert survey GCP21-II Kampala, Uganda, 18- 22 June 2012; Sweet Potato survey in Kenya, Sep 11-14
- Characteristics of respondents
- Constraints and trends
- Research options prioritized
- Principal component analysis results
- Implications: next steps

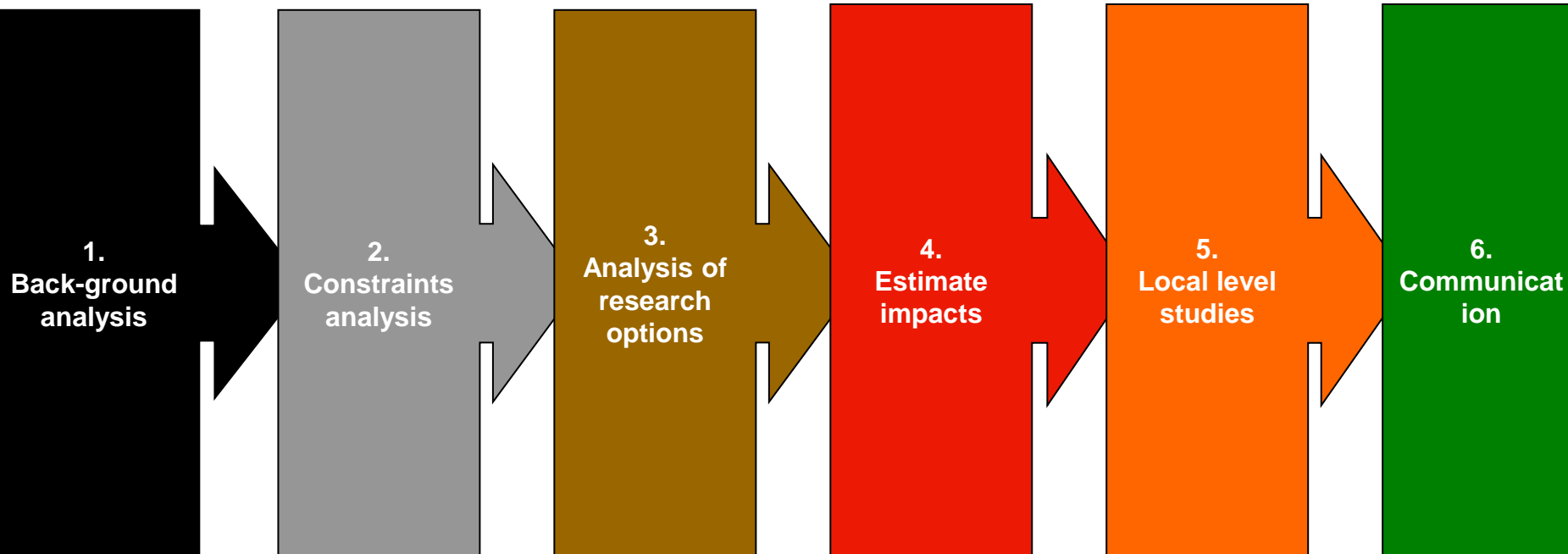
# Strategic assessment of research priorities for RTB

- Resources for CRP-RTB limited
- How best invest resources to achieve food security & income (& SLOs):
- Geography x Constraints x Crops x Research Options = Research activities
- e.g.  $8 \times 10 \times 6 \times 90 = 43,200 \Rightarrow$  overwhelming
- Systematic procedure for organizing information  $\Rightarrow$  set priorities



# Framework: Six stage process

Stakeholder engagement



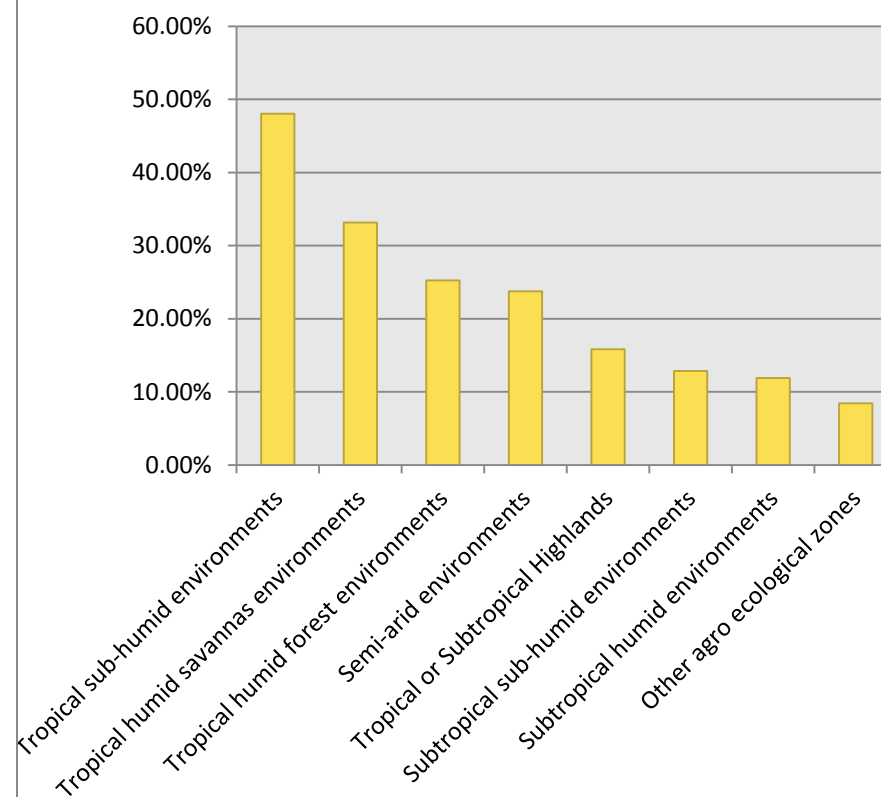
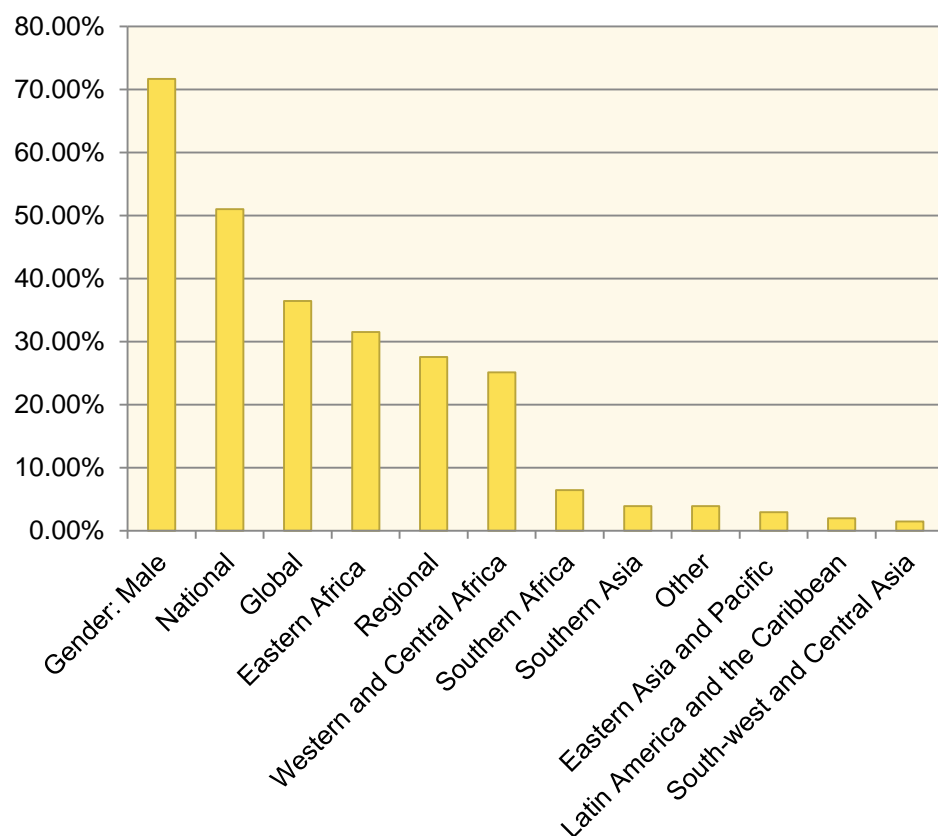
Priority Setting Taskforce



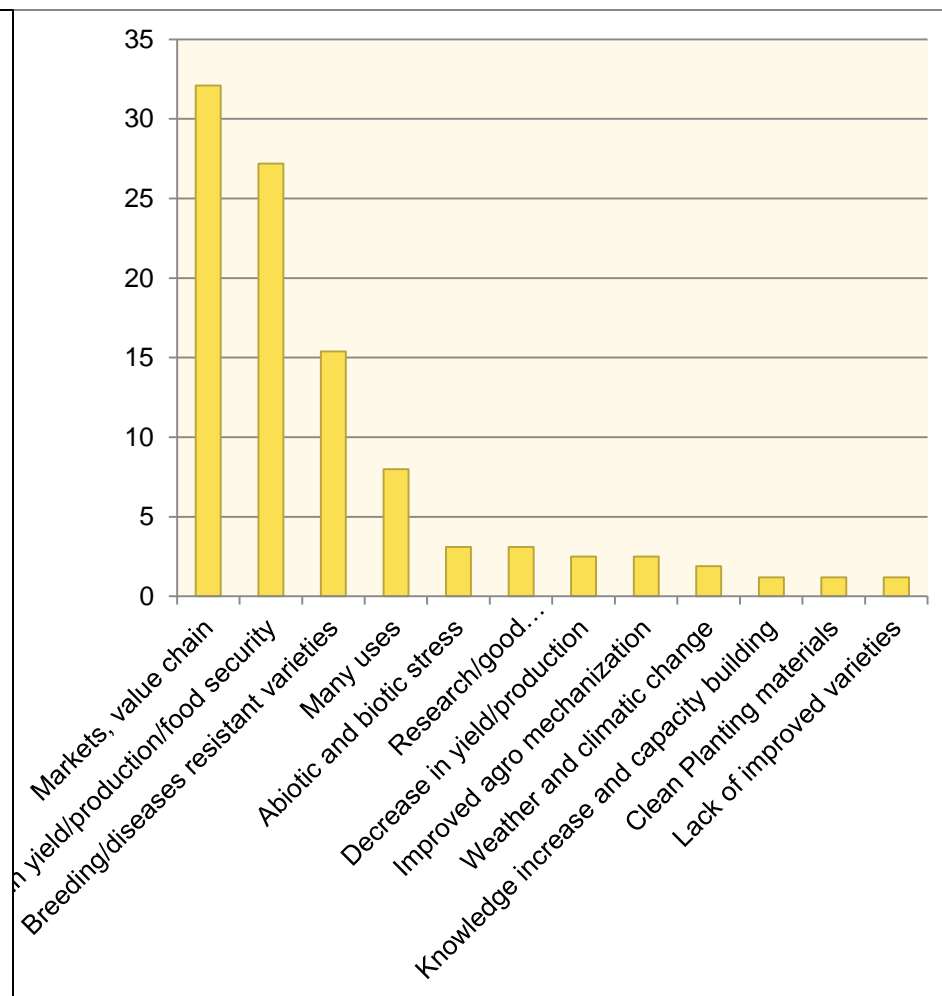
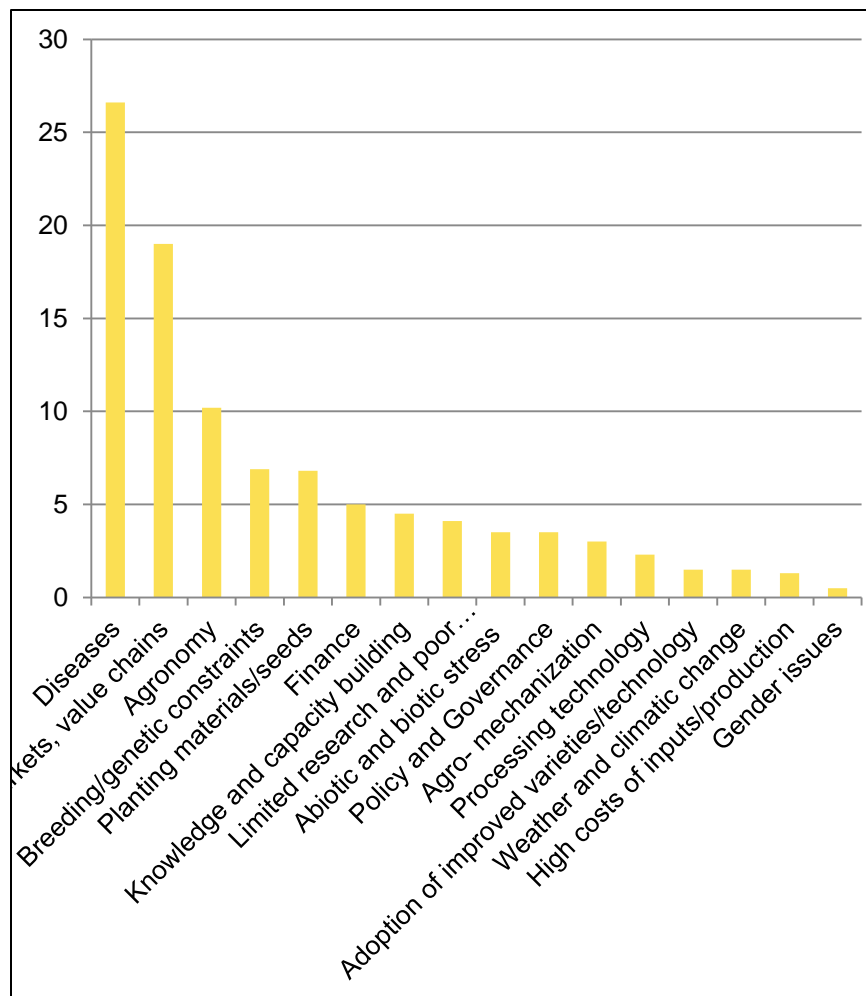
## **Scoring: Expert survey GCP21-II**

- Scoring: Rank alternatives
- Expert survey GCP21-II Kampala, Uganda, 18- 22 June 2012
- Questionnaire survey
- Open-ended questions: Constraints & trends: Rank tallying of frequencies of responses
- Rating: 89 Research options: Each alternative numerical score of importance/mean score priority
- Implications: next steps

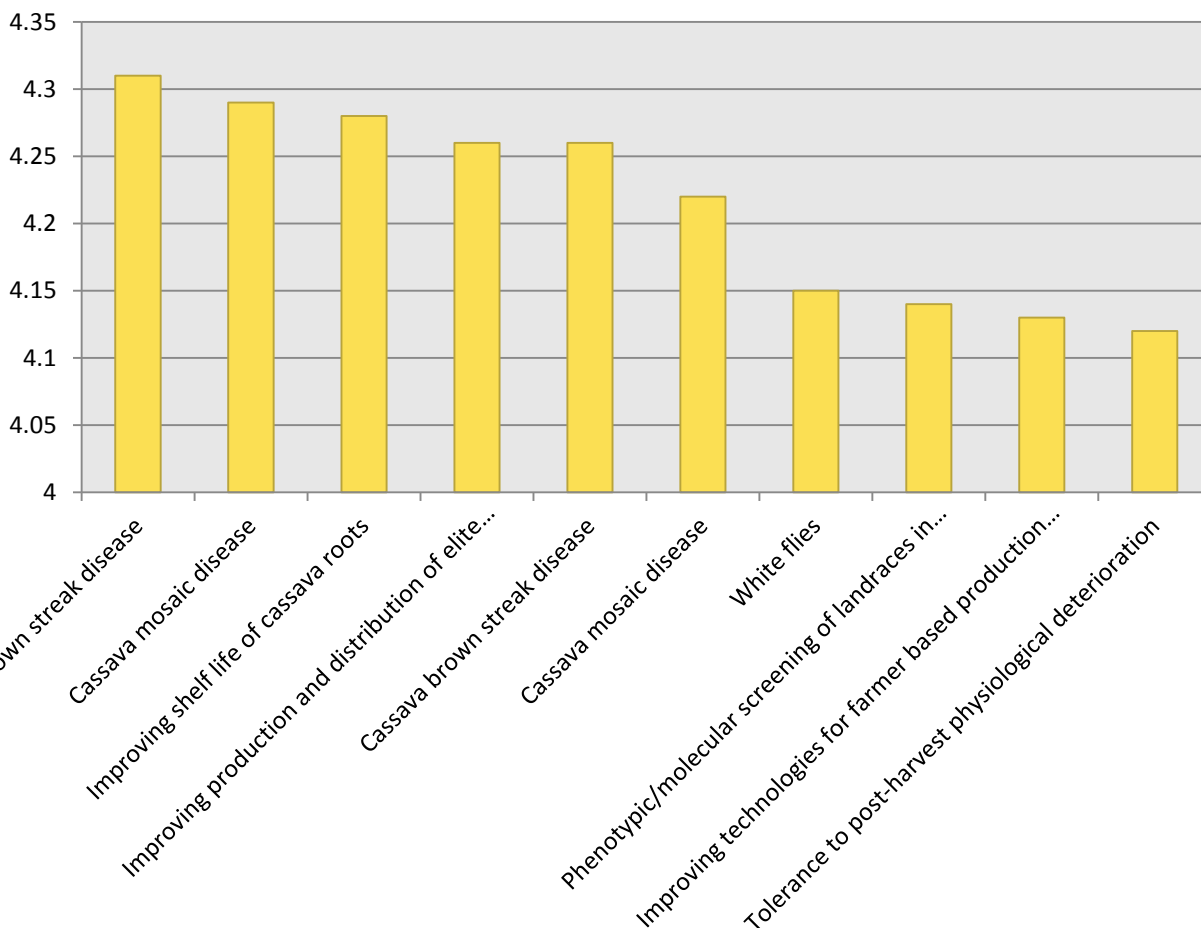
# Characteristics of respondents



# Constraints and trends

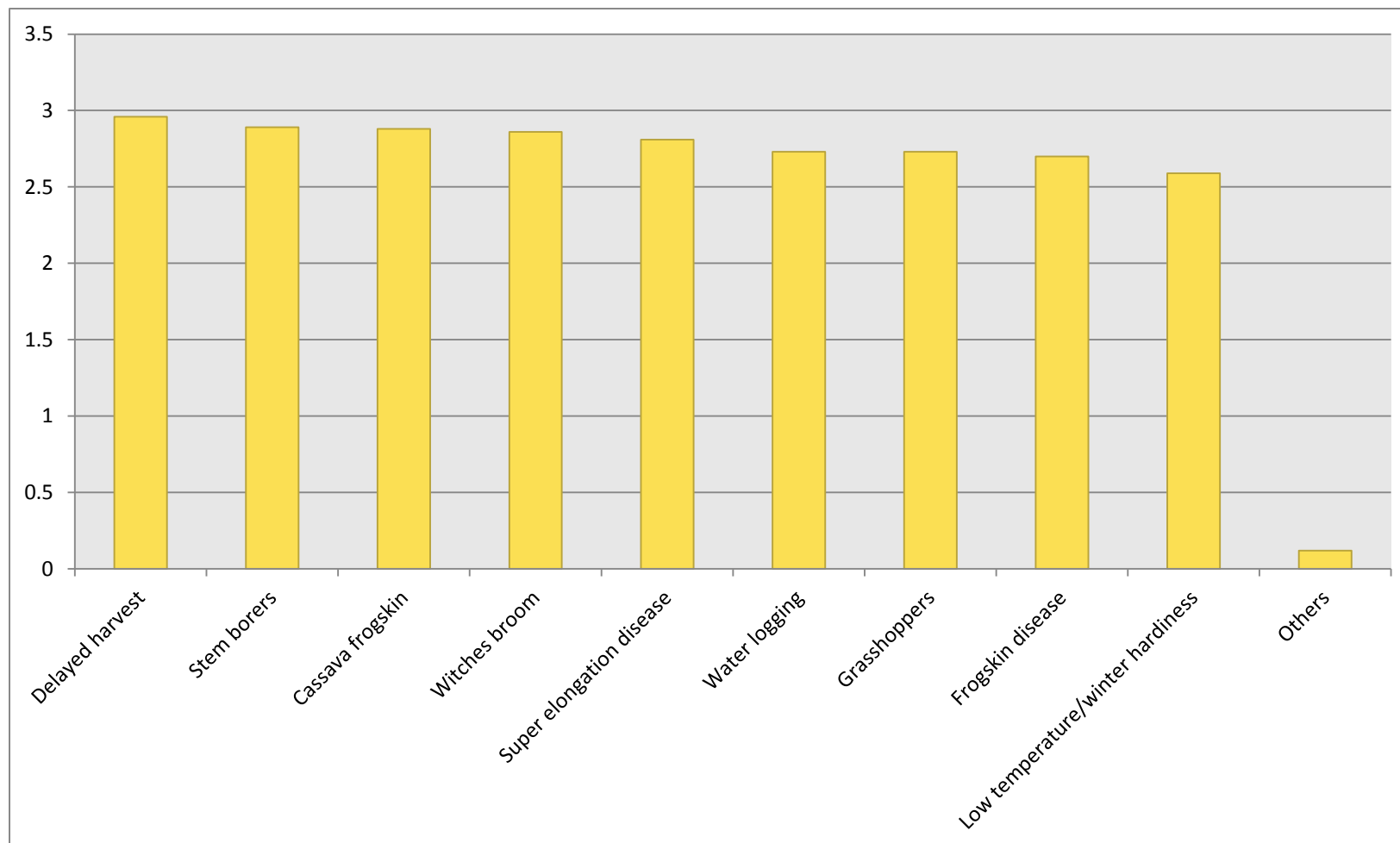


# Research options prioritized: top 10

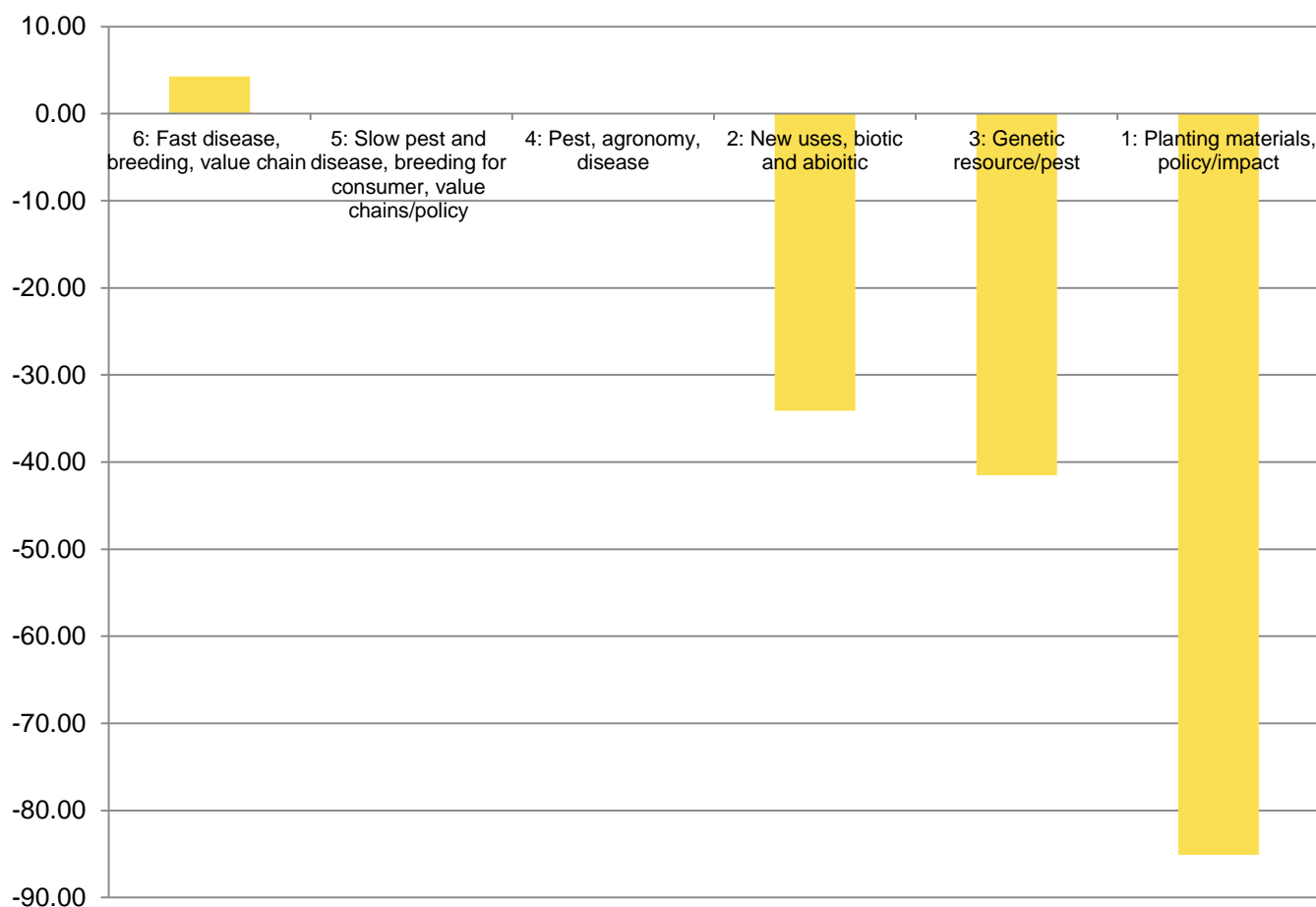




# Research options prioritized: bottom 10



# Principal Components Analysis: Results



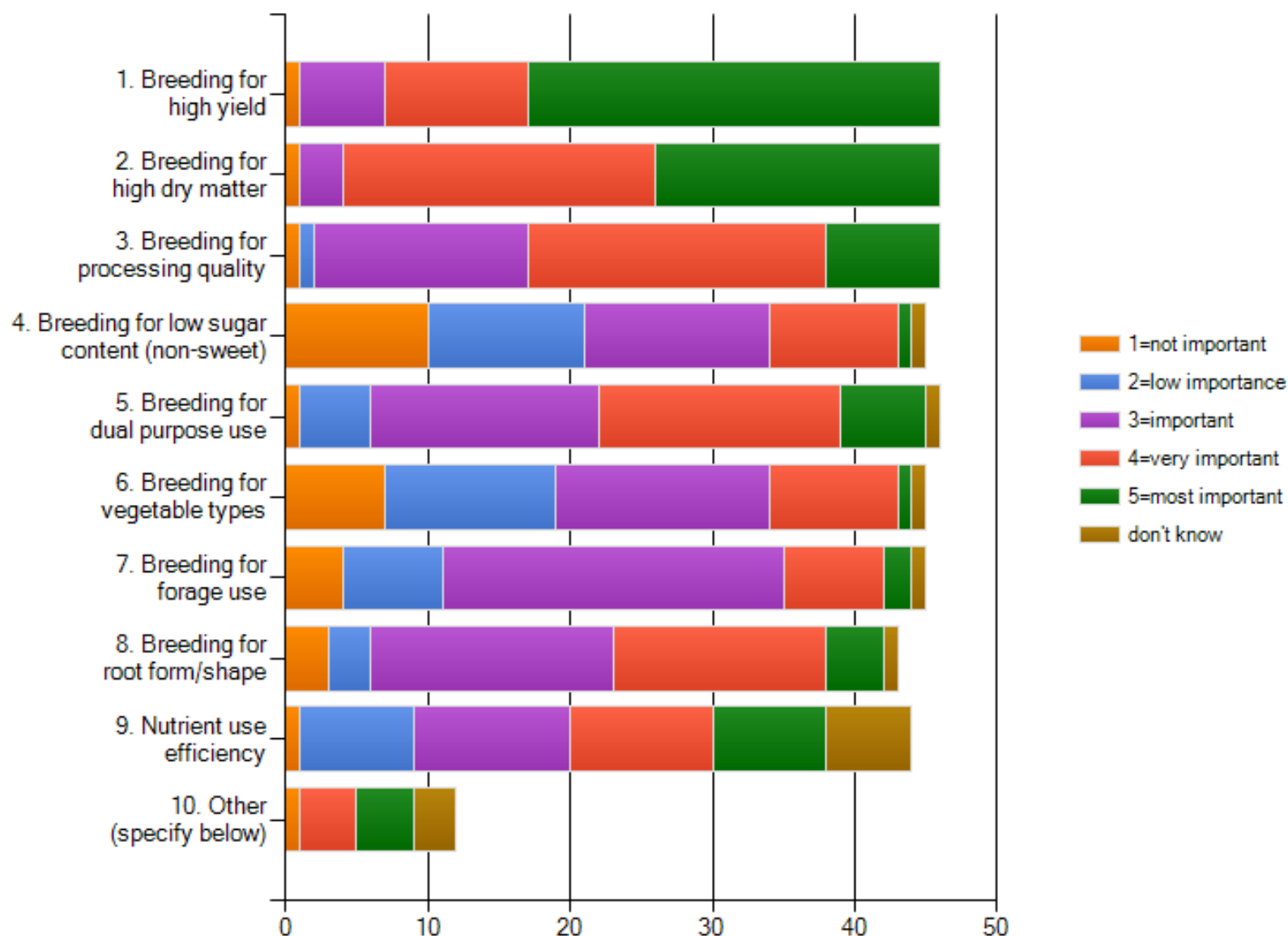
# **Preliminary Results from a Sweet Potato survey:**

**Based on 52 completed surveys, September 2012**

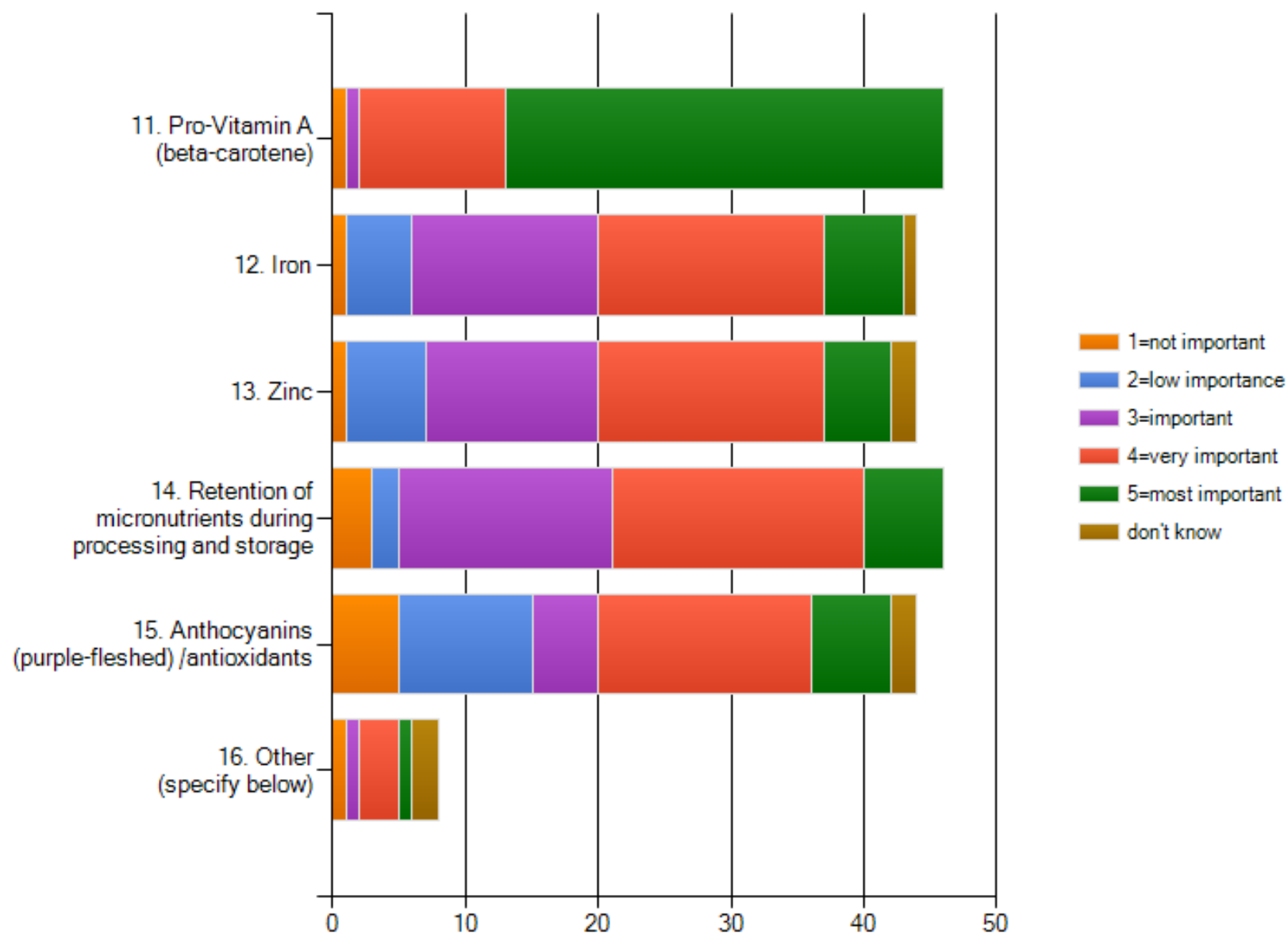
**Frequency of responses for each research option**



## A.1. Breeding for crop improvement

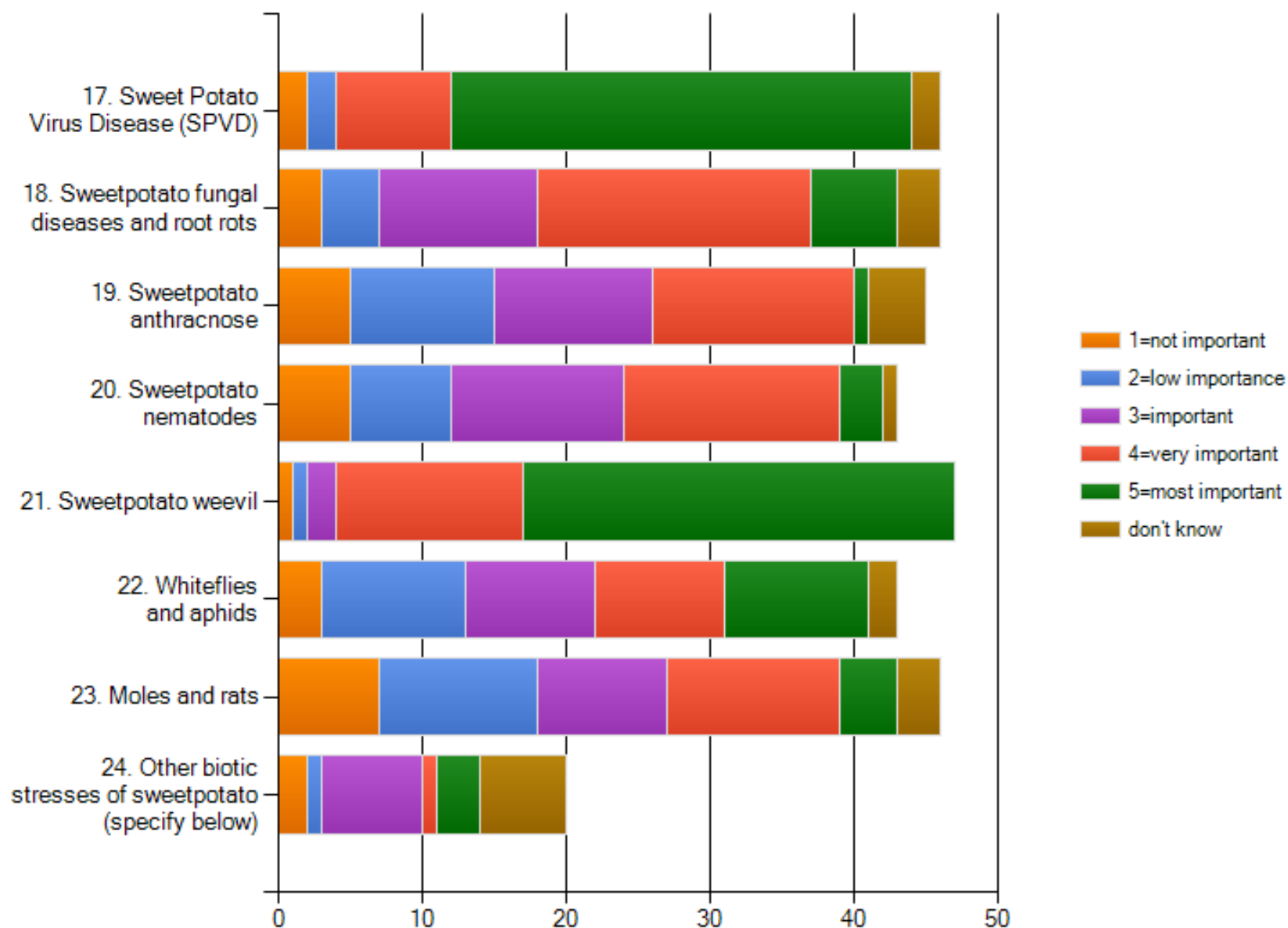


## A.2. Breeding for improvements in nutritional quality

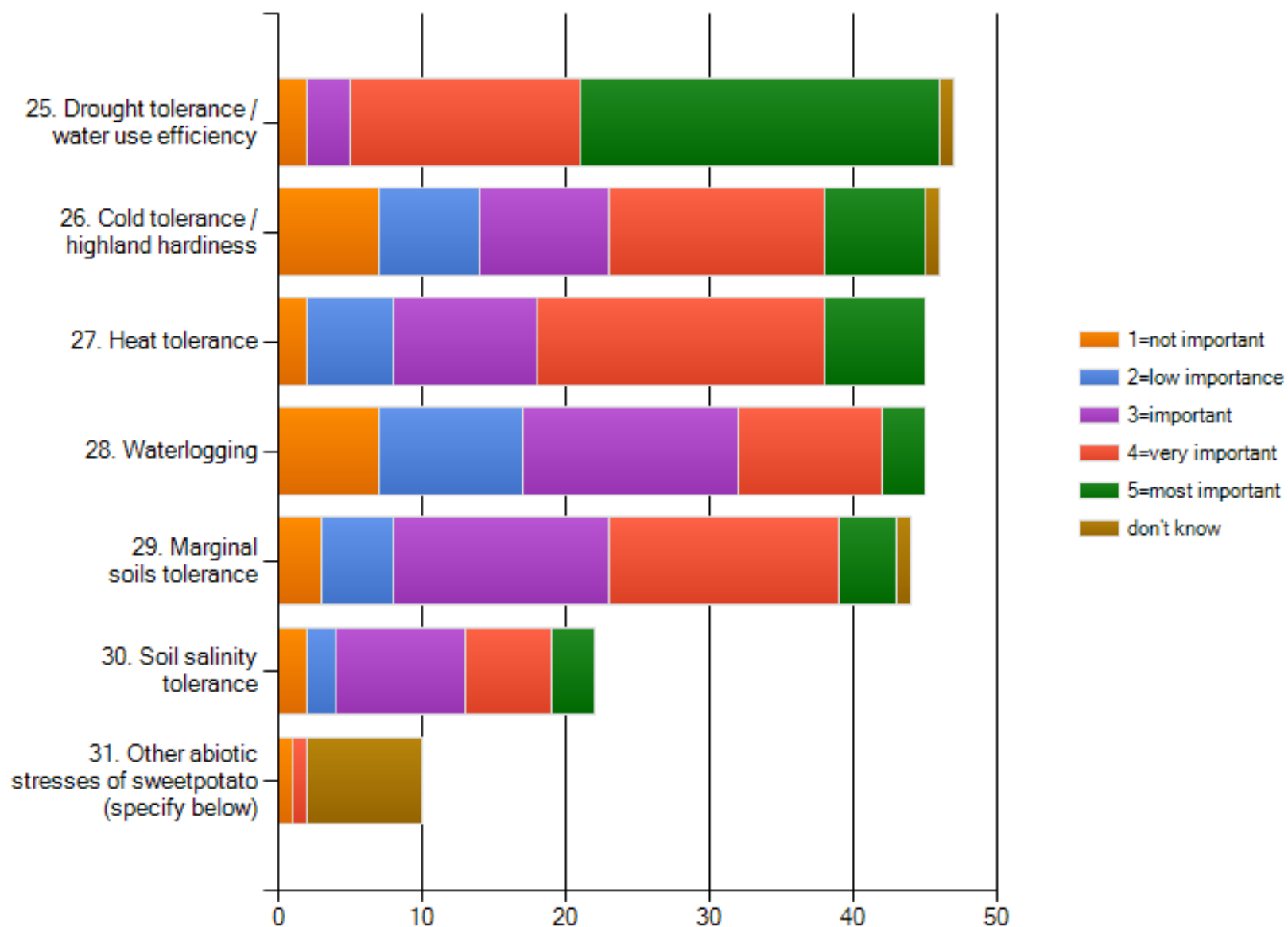




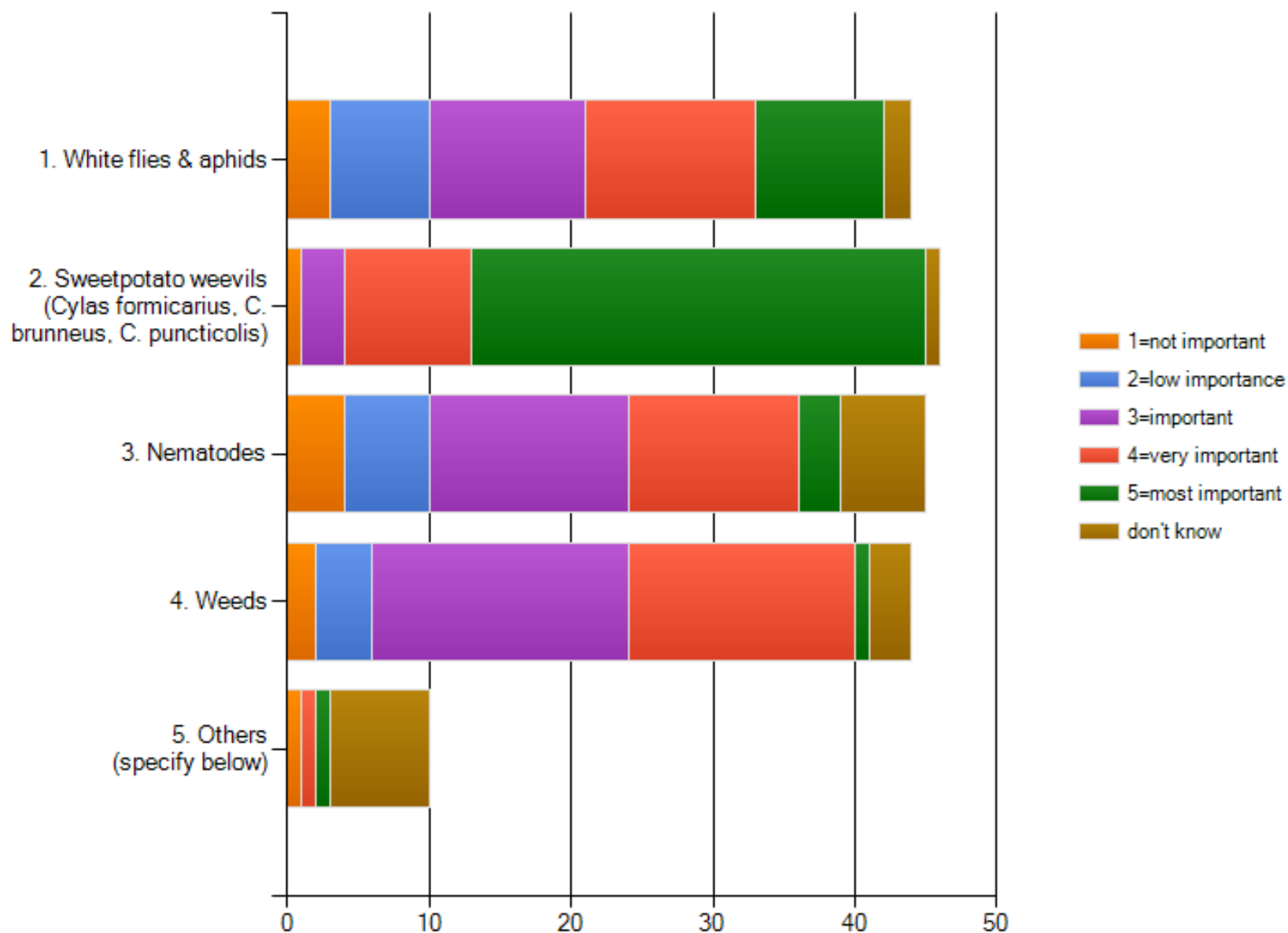
### A.3. Breeding for biotic stress resistance



#### A.4. Breeding for abiotic stress resistance



## E. Pest control and management, incl. resistant varieties



## Implication of results and next steps

- CRP-RTB needs guidance to focus efforts on most promising options for research: geography, crops, research problems, research options
- Survey of cassava experts GCP21-II, 18 - 22 June 2012
- Priorities:
  - (a) Disease management, breeding, value chains
  - (b) Pest and disease management, bio-fortified cassava varieties, breeding for other consumer preferred traits, value chains, policy
  - (c) Agronomy, pest and disease management, value chains, breeding
  - (d) Production technology, genetic resource management, pest management
  - (e) Biotic and abiotic, nutritional quality/new uses, value chains
  - (f) Planting materials, crop management, policy/impact studies
- More surveys, assessment of input-output functions and costs and benefits for alternative research options